

What is claimed is:

1) A device for attaching a cellular data service to a short distance wireless network, comprising:

5 a processor; and,

a memory, coupled to the processor, capable to store a software component for selectively attaching the cellular data service to the short distance wireless network responsive to a first terminal in the short distance wireless network communicating with the device.

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2) The device of claim 1, wherein the communicating includes identifying a type of the first terminal.

15 3) The device of claim 1, wherein the communicating includes the first terminal generating a message to the device.

4) The device of claim 1, wherein the communicating includes requesting a private IP address in the short distance wireless network.

20 5) The device of claim 1, wherein the communicating includes the first terminal requesting the cellular data service.

25 6) The device of claim 1, wherein the communicating includes transferring IP packets to the device.

7) The device of claim 1, wherein the selectively attaching includes establishing a short-range LAN access profile session.

8) The device of claim 1, wherein the selectively attaching includes establishing a dial-up network session.

5 9) The device of claim 1, wherein the software component selectively attaches the cellular data service to the short distance wireless network response to the first and a second terminal in the short distance wireless network communicating with the device.

10 10) The device of claim 1, wherein the cellular data service is a general packet radio service ("GPRS") in a Global System for Mobile communications ("GSM") cellular network.

15 11) The device of claim 1, wherein the short distance wireless network is a Bluetooth™ wireless local area network.

12) The device of claim 1, wherein the short distance wireless network is an 802.11 wireless local area network.

20 13) The device of claim 1, wherein the device further includes a short-range LAN Access profile software component.

14) A method for communicating with a cellular network, comprising the steps of:

25 generating a short-range radio message, by a terminal, in a short distance wireless network;

receiving, by a device, the short-range radio message;

generating a cellular signal, by the device, requesting a public IP address from a cellular data service responsive to the short-range radio message;

receiving a cellular signal containing the public IP address, by the device, for the device; and,

transferring a plurality of IP packets, by the device, between the cellular network and the terminal using the public IP address.

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15) The method of claim 14, wherein the short-range message includes a type of terminal.

16) The method of claim 14, wherein the short-range message includes a request for a cellular data service in the cellular network.

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17) The method of claim 14, wherein the short-range message includes an IP packet to be transferred to the cellular network.

18) The method of claim 14, wherein the terminal is a messaging terminal and the device is a cellular telephone.

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19) The method of claim 14, wherein the cellular network is a Global System for Mobile communications ("GSM") cellular network and the cellular data service is a general packet radio service ("GPRS").

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20) The method of claim 14, wherein the short distance wireless network is a Bluetooth™ wireless local area network.

21) The method of claim 14, wherein the short distance wireless network is an 802.11 wireless local area network.

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22) A method for communicating with a cellular network, comprising the steps of:

receiving, by a device, a plurality of requests in a plurality of short-range radio messages, from a respective plurality of terminals, in a short distance wireless network for a cellular data service in the cellular network; and,

5 attaching to the cellular data service, by the device, responsive to the plurality of requests.

23) A system for providing communication between a cellular network and a short distance wireless network, comprising:

a hand-held wireless device, including:

10 a cellular transceiver to communicate with the cellular network, including to receive a public IP address from a cellular data service for the hand-held wireless device;

15 a short-range transceiver to communicate with the short-range radio network, including to receive a short-range radio message requesting a plurality of packets from the cellular data service;

a memory, coupled to the cellular and short-range radio transceivers, to store a software component to selectively transfer a plurality of packets, using the public IP address, between the cellular data service in the cellular network and the short distance wireless network responsive to the short-range radio message; and,

20 a first wireless device to generate the short-range radio message.

24) The system of claim 23, wherein the first wireless device is selected from a group consisting of a desktop computer, a laptop computer, a personal digital assistant, 25 a headset, a pager, a pen, a printer, a watch, a digital camera and an equivalent.

25) An article of manufacture, including a computer readable medium, comprising:

a short-range radio software component to provide a short-range radio signal in a short distance wireless network;

5 a cellular software component to provide a communication signal in a cellular network; and,

a software component to selectively transfer a plurality of packets, using a cellular network address provided by a cellular data service in the cellular network, between the cellular network and the short distance wireless network responsive to a short-range radio
10 message requesting the cellular data service in the cellular network.